

## **RAW SEQUENCE LISTING**

**The Biotechnology Systems Branch of the Scientific and Technical  
Information Center (STIC) no errors detected.**

Application Serial Number: 10/530,061  
Source: IFI/016  
Date Processed by STIC: 3-8-06

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IFW16

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/530,061

DATE: 03/08/2006

TIME: 10:21:50

Input Set : F:\2633USMM.APP  
 Output Set: N:\CRF4\03082006\J530061.raw

3 <110> APPLICANT: SIDNEY, JOHN  
 4       SOUTHWOOD, SCOTT  
 5       SETTE, ALESSANDRO  
 7 <120> TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES  
 9 <130> FILE REFERENCE: 2060.033US02/EKS/M-M  
 11 <140> CURRENT APPLICATION NUMBER: 10/530,061  
 C--> 12 <141> CURRENT FILING DATE: 2005-04-04  
 14 <150> PRIOR APPLICATION NUMBER: PCT/US03/31308  
 15 <151> PRIOR FILING DATE: 2003-10-03  
 17 <150> PRIOR APPLICATION NUMBER: 60/416,207  
 18 <151> PRIOR FILING DATE: 2002-10-03  
 20 <150> PRIOR APPLICATION NUMBER: 60/417,269  
 21 <151> PRIOR FILING DATE: 2002-10-08  
 23 <160> NUMBER OF SEQ ID NOS: 2503  
 25 <170> SOFTWARE: PatentIn version 3.3  
 27 <210> SEQ ID NO: 1  
 28 <211> LENGTH: 9  
 29 <212> TYPE: PRT  
 30 <213> ORGANISM: Artificial Sequence  
 32 <220> FEATURE:  
 33 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
 34       peptide  
 36 <400> SEQUENCE: 1  
 37 Ala Tyr Gly Pro Gly Pro Gly Lys Phe  
 38 1           5  
 41 <210> SEQ ID NO: 2  
 42 <211> LENGTH: 9  
 43 <212> TYPE: PRT  
 44 <213> ORGANISM: Artificial Sequence  
 46 <220> FEATURE:  
 47 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
 48       peptide  
 50 <400> SEQUENCE: 2  
 51 Ala Glu Ile Pro Tyr Leu Ala Lys Tyr  
 52 1           5  
 55 <210> SEQ ID NO: 3  
 56 <211> LENGTH: 9  
 57 <212> TYPE: PRT  
 58 <213> ORGANISM: Artificial Sequence  
 60 <220> FEATURE:  
 61 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
 62       peptide  
 64 <400> SEQUENCE: 3

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Input Set : F:\2633USMM.APP  
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65 Ala Ala Asp Ala Ala Ala Lys Tyr  
66 1 5  
69 <210> SEQ ID NO: 4  
70 <211> LENGTH: 9  
71 <212> TYPE: PRT  
72 <213> ORGANISM: Epstein-Barr virus  
74 <400> SEQUENCE: 4  
75 Ala Tyr Ser Ser Trp Met Tyr Ser Tyr  
76 1 5  
79 <210> SEQ ID NO: 5  
80 <211> LENGTH: 9  
81 <212> TYPE: PRT  
82 <213> ORGANISM: Influenza A virus  
84 <400> SEQUENCE: 5  
85 Leu Ala Glu Lys Thr Met Lys Glu Tyr  
86 1 5  
89 <210> SEQ ID NO: 6  
90 <211> LENGTH: 9  
91 <212> TYPE: PRT  
92 <213> ORGANISM: Neisseria gonorrhoeae  
94 <400> SEQUENCE: 6  
95 Gly Thr Tyr Asp Tyr Trp Ala Gly Tyr  
96 1 5  
99 <210> SEQ ID NO: 7  
100 <211> LENGTH: 10  
101 <212> TYPE: PRT  
102 <213> ORGANISM: Neisseria gonorrhoeae  
104 <400> SEQUENCE: 7  
105 Leu Ser Val His Ser Ile Gln Asn Asp Tyr  
106 1 5 10  
109 <210> SEQ ID NO: 8  
110 <211> LENGTH: 10  
111 <212> TYPE: PRT  
112 <213> ORGANISM: Neisseria gonorrhoeae  
114 <400> SEQUENCE: 8  
115 Asp Thr Gly Gln Cys Pro Glu Leu Val Tyr  
116 1 5 10  
119 <210> SEQ ID NO: 9  
120 <211> LENGTH: 10  
121 <212> TYPE: PRT  
122 <213> ORGANISM: Hepatitis B virus  
124 <400> SEQUENCE: 9  
125 Asp Leu Leu Asp Thr Ala Ser Ala Leu Tyr  
126 1 5 10  
129 <210> SEQ ID NO: 10  
130 <211> LENGTH: 9  
131 <212> TYPE: PRT  
132 <213> ORGANISM: Hepatitis B virus  
134 <400> SEQUENCE: 10

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Input Set : F:\2633USMM.APP  
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135 Trp Phe His Ile Ser Cys Leu Thr Phe  
136 1 5  
139 <210> SEQ ID NO: 11  
140 <211> LENGTH: 10  
141 <212> TYPE: PRT  
142 <213> ORGANISM: Hepatitis B virus  
144 <400> SEQUENCE: 11  
145 Leu Ser Leu Asp Val Ser Ala Ala Phe Tyr  
146 1 5 10  
149 <210> SEQ ID NO: 12  
150 <211> LENGTH: 10  
151 <212> TYPE: PRT  
152 <213> ORGANISM: Hepatitis B virus  
154 <400> SEQUENCE: 12  
155 Leu Ser Gly Pro Gly Pro Gly Ala Phe Tyr  
156 1 5 10  
159 <210> SEQ ID NO: 13  
160 <211> LENGTH: 10  
161 <212> TYPE: PRT  
162 <213> ORGANISM: Hepatitis B virus  
164 <400> SEQUENCE: 13  
165 Leu Ser Leu Gly Pro Gly Pro Gly Phe Tyr  
166 1 5 10  
169 <210> SEQ ID NO: 14  
170 <211> LENGTH: 10  
171 <212> TYPE: PRT  
172 <213> ORGANISM: Hepatitis B virus  
174 <400> SEQUENCE: 14  
175 Leu Ser Leu Asp Gly Pro Gly Pro Gly Tyr  
176 1 5 10  
179 <210> SEQ ID NO: 15  
180 <211> LENGTH: 10  
181 <212> TYPE: PRT  
182 <213> ORGANISM: Hepatitis B virus  
184 <400> SEQUENCE: 15  
185 Lys Thr Tyr Gly Arg Lys Leu His Leu Tyr  
186 1 5 10  
189 <210> SEQ ID NO: 16  
190 <211> LENGTH: 10  
191 <212> TYPE: PRT  
192 <213> ORGANISM: Hepatitis B virus  
194 <400> SEQUENCE: 16  
195 Lys Thr Gly Pro Gly Pro Gly His Leu Tyr  
196 1 5 10  
199 <210> SEQ ID NO: 17  
200 <211> LENGTH: 10  
201 <212> TYPE: PRT  
202 <213> ORGANISM: Hepatitis B virus  
204 <400> SEQUENCE: 17

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Input Set : F:\2633USMM.APP  
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205 Lys Thr Tyr Gly Pro Gly Pro Gly Leu Tyr  
206 1 5 10  
209 <210> SEQ ID NO: 18  
210 <211> LENGTH: 10  
211 <212> TYPE: PRT  
212 <213> ORGANISM: Hepatitis B virus  
214 <400> SEQUENCE: 18  
215 Lys Thr Tyr Gly Gly Pro Gly Pro Gly Tyr  
216 1 5 10  
219 <210> SEQ ID NO: 19  
220 <211> LENGTH: 8  
221 <212> TYPE: PRT  
222 <213> ORGANISM: Hepatitis B virus  
224 <400> SEQUENCE: 19  
225 Lys Tyr Thr Ser Phe Pro Trp Leu  
226 1 5  
229 <210> SEQ ID NO: 20  
230 <211> LENGTH: 10  
231 <212> TYPE: PRT  
232 <213> ORGANISM: Hepatitis B virus  
234 <400> SEQUENCE: 20  
235 Phe Ala Ala Pro Phe Thr Gln Cys Gly Tyr  
236 1 5 10  
239 <210> SEQ ID NO: 21  
240 <211> LENGTH: 10  
241 <212> TYPE: PRT  
242 <213> ORGANISM: Hepatitis B virus  
244 <400> SEQUENCE: 21  
245 Ser Tyr Gln His Phe Arg Lys Leu Leu Leu  
246 1 5 10  
249 <210> SEQ ID NO: 22  
250 <211> LENGTH: 10  
251 <212> TYPE: PRT  
252 <213> ORGANISM: Hepatitis B virus  
254 <400> SEQUENCE: 22  
255 Leu Tyr Ser His Pro Ile Ile Leu Gly Phe  
256 1 5 10  
259 <210> SEQ ID NO: 23  
260 <211> LENGTH: 9  
261 <212> TYPE: PRT  
262 <213> ORGANISM: Hepatitis B virus  
264 <400> SEQUENCE: 23  
265 Met Ser Thr Thr Asp Leu Glu Ala Tyr  
266 1 5  
269 <210> SEQ ID NO: 24  
270 <211> LENGTH: 11  
271 <212> TYPE: PRT  
272 <213> ORGANISM: Hepatitis C virus  
274 <400> SEQUENCE: 24

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Input Set : F:\2633USMM.APP  
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275 Met Tyr Val Gly Gly Pro Gly Pro Gly Val Phe  
276 1 5 10  
279 <210> SEQ ID NO: 25  
280 <211> LENGTH: 8  
281 <212> TYPE: PRT  
282 <213> ORGANISM: Hepatitis C virus  
284 <400> SEQUENCE: 25  
285 Val Met Gly Ser Ser Tyr Gly Phe  
286 1 5  
289 <210> SEQ ID NO: 26  
290 <211> LENGTH: 10  
291 <212> TYPE: PRT  
292 <213> ORGANISM: Hepatitis C virus  
294 <400> SEQUENCE: 26  
295 Glu Val Asp Gly Val Arg Leu His Arg Tyr  
296 1 5 10  
299 <210> SEQ ID NO: 27  
300 <211> LENGTH: 10  
301 <212> TYPE: PRT  
302 <213> ORGANISM: Human immunodeficiency virus  
304 <400> SEQUENCE: 27  
305 Arg Thr Glu Ile Leu Asp Leu Trp Val Tyr  
306 1 5 10  
309 <210> SEQ ID NO: 28  
310 <211> LENGTH: 10  
311 <212> TYPE: PRT  
312 <213> ORGANISM: Human immunodeficiency virus  
314 <400> SEQUENCE: 28  
315 Arg Gln Asp Ile Leu Asp Leu Trp Val Tyr  
316 1 5 10  
319 <210> SEQ ID NO: 29  
320 <211> LENGTH: 10  
321 <212> TYPE: PRT  
322 <213> ORGANISM: Human immunodeficiency virus  
324 <400> SEQUENCE: 29  
325 Arg Thr Asp Ile Leu Asp Leu Trp Val Tyr  
326 1 5 10  
329 <210> SEQ ID NO: 30  
330 <211> LENGTH: 9  
331 <212> TYPE: PRT  
332 <213> ORGANISM: Human immunodeficiency virus  
334 <400> SEQUENCE: 30  
335 Tyr Thr Asp Gly Pro Gly Ile Arg Tyr  
336 1 5  
339 <210> SEQ ID NO: 31  
340 <211> LENGTH: 9  
341 <212> TYPE: PRT  
342 <213> ORGANISM: Human immunodeficiency virus  
344 <400> SEQUENCE: 31

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 03/08/2006  
PATENT APPLICATION: US/10/530,061 TIME: 10:21:51

Input Set : F:\2633USMM.APP  
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**Please Note:**

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:171; Xaa Pos. 7  
Seq#:199; Xaa Pos. 5,8  
Seq#:200; Xaa Pos. 4,5,6  
Seq#:201; Xaa Pos. 7,8  
Seq#:202; Xaa Pos. 2,7  
Seq#:203; Xaa Pos. 7  
Seq#:204; Xaa Pos. 3,4  
Seq#:205; Xaa Pos. 1,5,8  
Seq#:210; Xaa Pos. 2  
Seq#:736; Xaa Pos. 4  
Seq#:737; Xaa Pos. 7  
Seq#:738; Xaa Pos. 2,3,6  
Seq#:739; Xaa Pos. 7,8,10  
Seq#:932; Xaa Pos. 3,9  
Seq#:933; Xaa Pos. 5  
Seq#:934; Xaa Pos. 9  
Seq#:935; Xaa Pos. 4,6,9  
Seq#:936; Xaa Pos. 4,5,6,9  
Seq#:981; Xaa Pos. 1,3  
Seq#:1556; Xaa Pos. 4,5  
Seq#:1557; Xaa Pos. 8,9

## VERIFICATION SUMMARY

PATENT APPLICATION: US/10/530,061

DATE: 03/08/2006

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Input Set : F:\2633USMM.APP

Output Set: N:\CRF4\03082006\J530061.raw

L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:1750 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:171 after pos.:0  
L:2040 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:199 after pos.:0  
L:2059 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:200 after pos.:0  
L:2078 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:201 after pos.:0  
L:2102 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:202 after pos.:0  
L:2121 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:203 after pos.:0  
L:2140 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:204 after pos.:0  
L:2169 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:205 after pos.:0  
L:2244 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:210 after pos.:0  
L:7549 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:736 after pos.:0  
L:7568 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:737 after pos.:0  
L:7592 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:738 after pos.:0  
L:7616 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:739 after pos.:0  
L:9572 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:932 after pos.:0  
L:9591 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:933 after pos.:0  
L:9610 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:934 after pos.:0  
L:9639 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:935 after pos.:0  
L:9663 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:936 after pos.:0  
L:10171 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:981 after pos.:0  
L:16079 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1556 after pos.:0  
L:16098 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1557 after pos.:0